

## 32-8297: Recombinant Human UFM1-Activating Enzyme 5/UBA5 (N-6His)

**Gene :** UBA5  
**Gene ID :** 79876  
**Uniprot ID :** Q9GZZ9

### Description

Source: E. coli.  
MW :47kD.

Recombinant Human Ubiquitin-fold Modifier 1 Activating Enzyme is produced by our E.coli expression system and the target gene encoding Met1-Met404 is expressed with a 6His tag at the N-terminus. UBA5 is a member of the ubiquitin-activating E1 family and UBA5 subfamily. Ubiquitin and ubiquitin-like proteins are recognized as covalently conjugated to various cellular substrates by a three-step enzymatic pathway. The ubiquitin-activating enzyme (E1) has a vital role in the first step of ubiquitination pathway to activate ubiquitin or ubiquitin-like proteins. UBA5 activates ubiquitin-fold modifier 1, a ubiquitin-like post-translational modifier protein, via the formation of a high-energy thioester bond. UBA5 is located primarily in cytoplasm, while it generally localizes to the nucleus in presence of SUMO2.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl pH 8.0, 1mM DTT, 10% glycerol, 50mM NaCl.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHHSSGLVPRGSHMAESVERLQQRVQELERELAQERSLQVPRSGDGGGGRVRIEKMSSSEVDSN  
PYSRLMALKRMGIVSDYEKIRTFAVAIVGVGGVGSVTAEMLTRCGIGKLLFDYDKVELANMNRLLFFQPHQAGL  
SKVQAAEHTLRNINPDVLFVHNYNITTVENFQHFMDRISNGGLEEGKPVLDVLSVDNFEARMTINTACNELG  
QTWMEGVSSENAVSGHIQLIPGESACFACAPPLVVAANIDEKTLKREGVCAASLPTTMGVVAGILVQNVLFLL  
NFGTVSFYLGYNAMQDFPTMSMKPNPQCDDRNCRKQEEYKKKVAALPKQEVQEEEEIIHEDNEWGIELVS  
EVSEEEELKNFSGPVPDLPEGITVAYTIPKKQEDSVTELTVEDSGESLEDLMAKMKNM

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.